- 1. Create a simple form in HTML that includes a text input, a password input, and a submit button.
- 2. How do you create a hyperlink in HTML that opens in a new tab?
- 3. Write HTML to create a table with 3 rows and 3 columns. The first row should contain headers.
- 4. Create an ordered list and an unordered list in HTML.
- 5. How do you apply a background color to the entire page in CSS?
- 6. Write CSS to style an element with the class "highlight" to have yellow background and bold text.
- 7. Write CSS to change the color of all <h1> elements to blue.
- 8. Write CSS to add a 10px padding, 5px border, and 15px margin to a <div> element.
- 9. Create a flex container with three child elements that are evenly spaced.
- 10. Explain the purpose of HTML5 semantic elements and provide examples of at least five semantic elements.
- 11. Demonstrate how to use the HTML5 Geolocation API to get the user's current location.
- 12. Create a CSS Grid layout with three columns and three rows where the first row spans all columns and the last column spans all rows.
- 13. Write CSS to create a button that changes color smoothly on hover using transitions.
- 14. Create a CSS animation that moves a <div> from left to right.
- 15. Explain how to use CSS variables and provide an example.
- 16. Write a media query that changes the background color of the body to lightgray when the viewport width is 600px or less.
- 17. Write a media query to apply a different font size for a element when the device is in landscape orientation.
- 18. Write a media guery to target devices with high-resolution (Retina) displays.
- 19. Write a media query that applies styles only when the viewport width is between 768px and 1024px and the orientation is portrait.
- 20. Write a set of media queries to create a responsive grid layout with 4 columns on large screens, 2 columns on medium screens, and 1 column on small screens.
- 21. Write a media query to apply styles specifically for printed documents.
- 22. Write a media query to adjust the padding of a header element based on the viewport height.
- 23. Write a media query to change the layout of a div to a flexbox when the aspect ratio is
- 24. Write a media query that applies a dark theme when the user's system preference is set to dark mode.
- 25. Write a media query to apply styles only on devices that support hover functionality.
- 26. Write CSS to position an element 10px from the top and 20px from the left of its normal position.
- 27. Write CSS to position an element at the bottom-right corner of its nearest positioned ancestor.
- 28. Explain what the default value of the position property is and how it affects the placement of an element.

- 29. Write CSS to create a fixed navigation bar that stays at the top of the viewport when scrolling.
- 30. Explain the position: sticky property and provide an example where a header becomes sticky when scrolling.
- 31. Write CSS to position three overlapping elements using z-index such that the middle element appears on top.
- 32. Write CSS to absolutely position an element inside a scrolling container.
- 33. Write CSS to center an absolutely positioned element within its positioned ancestor.
- 34. Write CSS to create a fixed footer that stays at the bottom of the viewport.
- 35. Write CSS to vertically and horizontally center a flex item within a flex container.
- 36. Write CSS to allow flex items to wrap onto multiple lines if there is not enough space in a single line.
- 37. Write CSS to align flex items to the start of the cross-axis (top in a row layout).
- 38. Write CSS to change the order of flex items such that the third item appears first.
- 39. Write CSS to allow flex items to grow to fill the remaining space but shrink if necessary to fit within the container.
- 40. Write CSS to align a specific flex item to the end of the cross-axis, regardless of the alignment of other items.
- 41. Write CSS to create a nested flex container where the outer container arranges items in a row and the inner container arranges items in a column
- 42. Write CSS to create a responsive flex container that switches from a row layout to a column layout on screens smaller than 600px.